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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or a	gent's file reference				
030457WO	Sour a me reference	FOR FURTHER AC	TION	Scc Form PCT/IPEA/416	
International application No.		International filing date (day/month/year)	Priority date (day/month/year)	
PCT/US04/3628		28 October 2004 (28.10.2		29 October 2003 (29.10.2003)	
l		or national classification and	d IPC		
IPC: H04L USPC: 713/17	9/ 00 6,168;705/76				
Applicant					
QUALCOMM I	NCORPORATED				
Exar	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 				
2. This	REPORT consists of	a total of <u>5</u> sheets, incl	uding this cover shee	t.	
3. This	report is also accomp	anied by ANNEXES, cor	mprising:		
а. [(sent to the applica	nt and to the Internation	al Bureau) a total of	sheets, as follows:	
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
sheets which supersede earlier speets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
ъ. Г			otal of (indicate time	and number of alastropia assuias(a))	
b (sent to the International Bureau only) a total of (indicate type and number of electronic carrier), containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This	report contains indica	tions relating to the follo	wing items:		
\square		asis of the report			
П		ority			
	Box No. III No	n-establishment of opinion with regard to novelty, inventive step and industrial			
		plicability ck of unity of invention			
		ex of unity of invention assoned statement under Article 35(2) with regard to novelty, inventive step or			
	in	dustrial applicability; citations and explanations supporting such statement			
\sqcup	Box No. VI Ce	rtain documents cited			
	Box No. VII Co	rtain defects in the international application			
	Box No. VIII Co	rtain observations on the	international applica	ation	
Date of submission of the demand		Date of completion	of this report		
31 May 2005 (31.05.2005)		16 March 2006 (16.0	3.2006)		
Name and mailing address of the IPEA/ US		Authorized officer	for Less Va		
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		Joseph Pan	*		
P.O. Box 1450 Alexandria, Virginia 22313-1450					
Facsimile No. (571) 273-3201		Telephone No. 571-2	72-5987		

Form PCT/IPEA/409 (cover sheet)(April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.	
DOTTE ITERATION A	

Box No. I Basis of the report				
1. With regard to the language, this report is based on:				
the international application in the language in which it was filed.				
a translation of the international application into, which is the language of a translation furnished for the				
purposes of:				
international search (under Rules 12.3 and 23.1(b))				
publication of the international application (under Rule 12.4(a))				
international preliminary examination (under Rules 55.2(a) and/or 55.3(a))				
 With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not anneaed to this report; 				
the international application as originally filed/furnished				
the description:				
pages 1-5 as originally filed/furnished				
pages* NONE received by this Authority on pages* NONE received by this Authority on				
the claims:				
pages <u>5-8</u> as originally filed/furnished				
pages * NONE as amended (together with any statement) under Article 19				
pages* NONE received by this Authority on pages* NONE received by this Authority on				
57				
the drawings:				
pages 1-9 as originally filed/furnished pages* NONE received by this Authority on				
pages* NONE received by this Authority on				
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.				
3. The amendments have resulted in the cancellation of:				
the description, pages				
the claims, Nos				
the drawings, sheets/figs				
the sequence listing (specify):				
any table(s) related to the sequence listing (specify):				
 This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(e)). 				
the description, pages				
the claims, Nos				
the drawings, sheets/figs				
the sequence listing (specify):				
any table(s) related to the sequence listing (specify):				
If item 4 applies, some or all of those sheets may be marked "superseded,"				
orm PCT/IPEA/409 (Box No. 1) (April 2005)				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY International application No. PCT/US04/36284

Form PCT/IPEA/409 (Box No. V) (April 2005)

applicability; citations and ex		
Statement		
Novelty (N)	Claims 1-45	Y
	Claims NONE	N
Inventive Step (IS)	Claims NONE	YI
	Claims 1-45	
Industrial Applicability (IA)	Claims 1-45	YI
	Claims NONE	N
Citations and Explanations (Rule 70.7)		
se See Continuation Sheet		

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Sup	plemental	Box	

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

V. 2. Citations and Explanations:

Claims 1-45 lack inventive step under PCT article 33(3) as being obvious over Drews (U.S. Patent No. 6,477,645) in view of Bari et al. (U.S. Pub. No. 2002/0023059).

Drews discloses referring to FIG. 1, a block diagram of one embodiment of system 100 for providing authority and integrity checks in a system lacking a public key is shown. System 100 includes remote platform 105, user platform 110, including transformation value generator 115, comparison system 120, and delsplay system 122. Remote platform 105 is coupled to user platform 110 by communication channel 125. User 130 is capable of receiving input, such as credential stransformation value 135, information transformation value 145, from authorizing entity 50 for input into comparison system 120 of user platform 110. Remote platform 105 is capable of receiving information 155 and credential subset 146 from authorizing entity 150.

Remote platform 105 is capeable, in one embodiment, of staging and transmitting information 155 and credential 160 to user platform 110. Remote platform 105 is not limited to any particular type of device and can be a computer, such as a personal computer, a server or a maintainen, or a communication device, Such as a cell phone, or at television or radio transmictor of transceiver. Those skilled in the art will recognize that any device capable of transmitting information to user platform 110 can function as remote platform 105.

The present invention ensures the authority and integrity of information received at user pletform 110, so it is not limited in the type of information transmitted from remote pletform 150 to user platform 110. In one embodment of the invention, information 155 is a boot image, but those skilled in the art will recognize that the present invention is equally applicable to the transmission of information such as explication software or data.

Credential 160, in one embodiment, contains authority information, such as a digital signature or digital signature in combination with other information, such as a digital ostiticate that normally accompanies transmitted information. The authority information, without a public key that designates the authorized source of the

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Supplemental Box

. . .

credential's digital signature installed on user platform 110, is insufficient to check the authority of the credential. However, a credential which includes a digital signature that covers the rest of the credential can be used to check the integrity of the credential.

User platform 110 is provided for the purpose of receiving transmitted information such as information 156, credential 160, or information 156 and credential 161 of form remote platform 105. User platform 101 is the target device for software, commands, or data staged on remote platform 105, and can be a computer, such as a personal computer, a server or a maintrame, or a communication device, such as a spage, a cell phone, or a television or radio receiver of transceiver. Like remote platform 105, user platform 110 is not limited to any particular type of device, and those skilled in the art will recognize that any device capable of receiving information from remote platform 105 are not used to receive in information from remote platform 105 are not used to represent invention.

(see column 2, lines 9-65 of Drews).

Transformation value generator 116 is provided to convert a variable length amount of digital data into a more concise form. In one embodiment of the invention, generator 115 is a hash function. A hash function accepts any length input and generates a fixed length output. Hash functions are known in the art and those skilled in the art will recognize that a hash function suitable for use in embodiments of the present invention is one that is relatively easy to compute, one-way, and collision-free. Gee column 3, lines 15-23 of Drews.

In one embodiment, authorizing entity 150 supplies information transformation value 140, computed from information 155, to user 130. The transformation value is computed such that all parts of the information contribute to the transformation value in a way that is one-way and collision-free. In one embodiment, user platform 110 receives information transformation value 140 from user 130. Comparison system 120 compares the neerelved information transformation value 140 with the output of 140 from user 130. Comparison system 120 compares the neerelved information transformation value 140 with the output platform 140 from 1

Draws discloses the claimed subject matter. However, Draws does not specifically mention using the mester credential in generating the spelication credential. On the other hand, Barf et al. disclose a system for registering, schoring and managing personal data for use over a network, wherein the master credential is utilized (see paragraph (0046), lines 10-19 of Barf et al.), it would have been obvious to a person of ordinary skill in the art at the time the invention to utilize the master credential in generating the application credential. The ordinary skilled person would have been motivated to have applied the teaching of 3 and it at it. Into matter of 17 revention is understood to the case of the special state of 18 and 18

Claims 1-45 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.